

LOUISIANA DEPARTMENT OF WILDLIFE & FISHERIES



**OFFICE OF FISHERIES
INLAND FISHERIES SECTION**

PART VI –C (ARCHIVES)

WATERBODY MANAGEMENT PLAN SERIES

SALINE LAKE

**AQUATIC VEGETATION TYPE MAPS
AND NARRATIVES**

SALINE LAKE TYPEMAPS

August 14, 2007

Saline Lake (Natchitoches/Winn Parishes)

Vegetative Type Map

Date Conducted: 7/18/07 & 8/9/07

Conducted by: Ricky Moses
Lynn Mathews
Jerry Collins

Saline Lake is located in Winn and Natchitoches parishes and is about 12 miles west of Winnfield. It is an 8,400 acre impoundment with almost 90% of the surface area covered with cypress and tupelo timber. The maximum depth is about 16 feet and the average is 7 feet.

The lake was last drawn down September 2004 through January 2005. In April 2005, approximately 7500 Triploid Grass Carp were stocked into the lake for aquatic vegetation control.

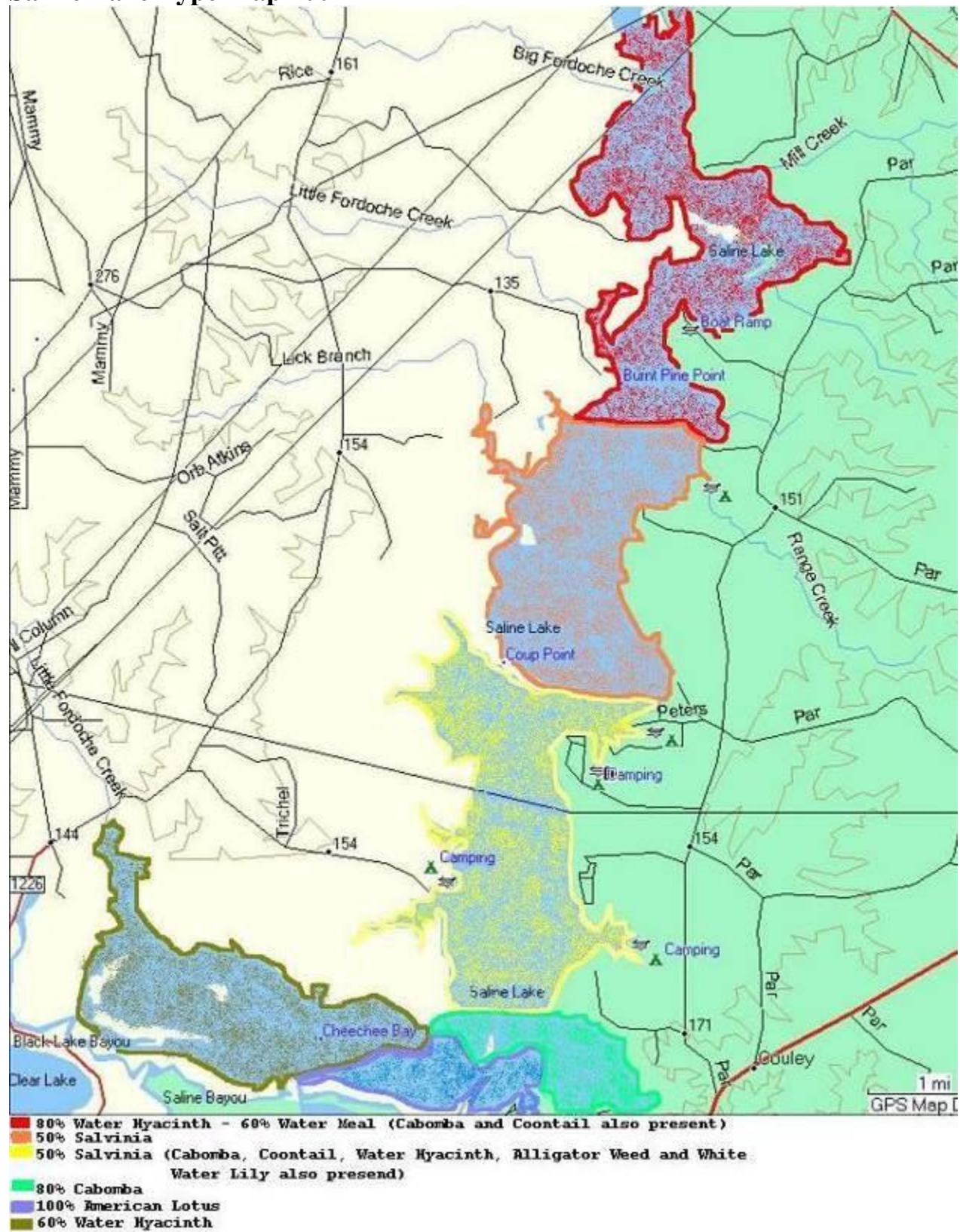
The lake was surveyed for the presence of aquatic vegetation on July 18th and August 9th 2007. The bank (from Sandy Point south to Benjamin Point then east to the eastern bank then north through Mulligan Inn on to Stump's) averaged about 50% coverage of Cabomba and Coontail. Water Hyacinth, Alligator Weed and Fragrant Water Lily, Common Salvinia and American Lotus were also present.

The upper 1/3 of the lake had some areas with as much as 100% coverage of Water Meal and Duck Weed. Other areas had 60 - 80% Water Meal, Duck Weed and Cabomba coverage with some Water Hyacinth and Salvinia mixed in. Also present were Egeria, Fragrant Water Lily, American Lotus and Alligator Weed.

The area from Benjamin Point to 1st Oak Point has mainly Cabomba and Coontail with Bladderwort and Water Hyacinth also present. On to the east bank had about 90% Cabomba. American Lotus and Fragrant Water Lily were along the bank. Present around Collins and Ervin's Camp was Cabomba, Watershield, Water Hyacinth, Fragrant Water Lily, Bladderwort and Salvinia. The bank south of there had 90% coverage of Milfoil and 50% coverage of Fragrant Water Lily. Cabomba was also present. From Durham's on west to Shady Acres started at 80% Cabomba to 20% coverage. Also present was Bladderwort, Naiad, Fragrant Water Lily, Water Hyacinth (along the bank), Salvinia, American Lotus and Pickerel Weed. The channel just east of Cedar Bluff was solid American Lotus. Cedar Bluff and west had Fragrant Water Lily, Water Hyacinth, Watershield, Cabomba, Alligator Weed and Water Meal present. Milfoil was very heavy on the west side of the pocket. West through the Saline Bayou channel was Sagittaria, Cabomba and Fragrant Water Lily. Around the public ramp was about 80% coverage of Cabomba out to 8 foot depth. Also present was Water Hyacinth, American Lotus, Fragrant

Water Lily, Coontail, Watershield, Bladderwort, Southern Naiad, Salvinia and Pond Weed. Around 2nd Oak Point and west was Fragrant Water Lily, Cabomba, Water Meal, Bladderwort, Salvinia and Milfoil. West of spillway and along the levee was solid American Lotus. The majority of the Chee Chee Bay area had large mats of Water Hyacinth which was matted in places 30 to 100 feet deep along the bank. Also present was Milfoil, Cabomba, Fragrant Water Lily, Coontail, Duck Weed, Naiad and Alligator Weed.

Saline Lake Type Map 2007



August 14, 2008

Saline Lake (Natchitoches/Winn Parishes)

Vegetative Type Map

Date Conducted: 7/22/2008 & 7/24/2008

Conducted by: Ricky Moses
Lynn Mathews
Jerry Collins

Saline Lake is located in Winn and Natchitoches parishes and is about 12 miles west of Winnfield. It is an 8,400 acre impoundment with almost 90% of the surface area covered with cypress and tupelo timber. The maximum depth is about 16 feet and the average is 7 feet.

The lake was last drawn down September 2004 through January 2005. In April 2005, approximately 7500 Triploid Grass Carp were stocked into the lake for aquatic vegetation control.

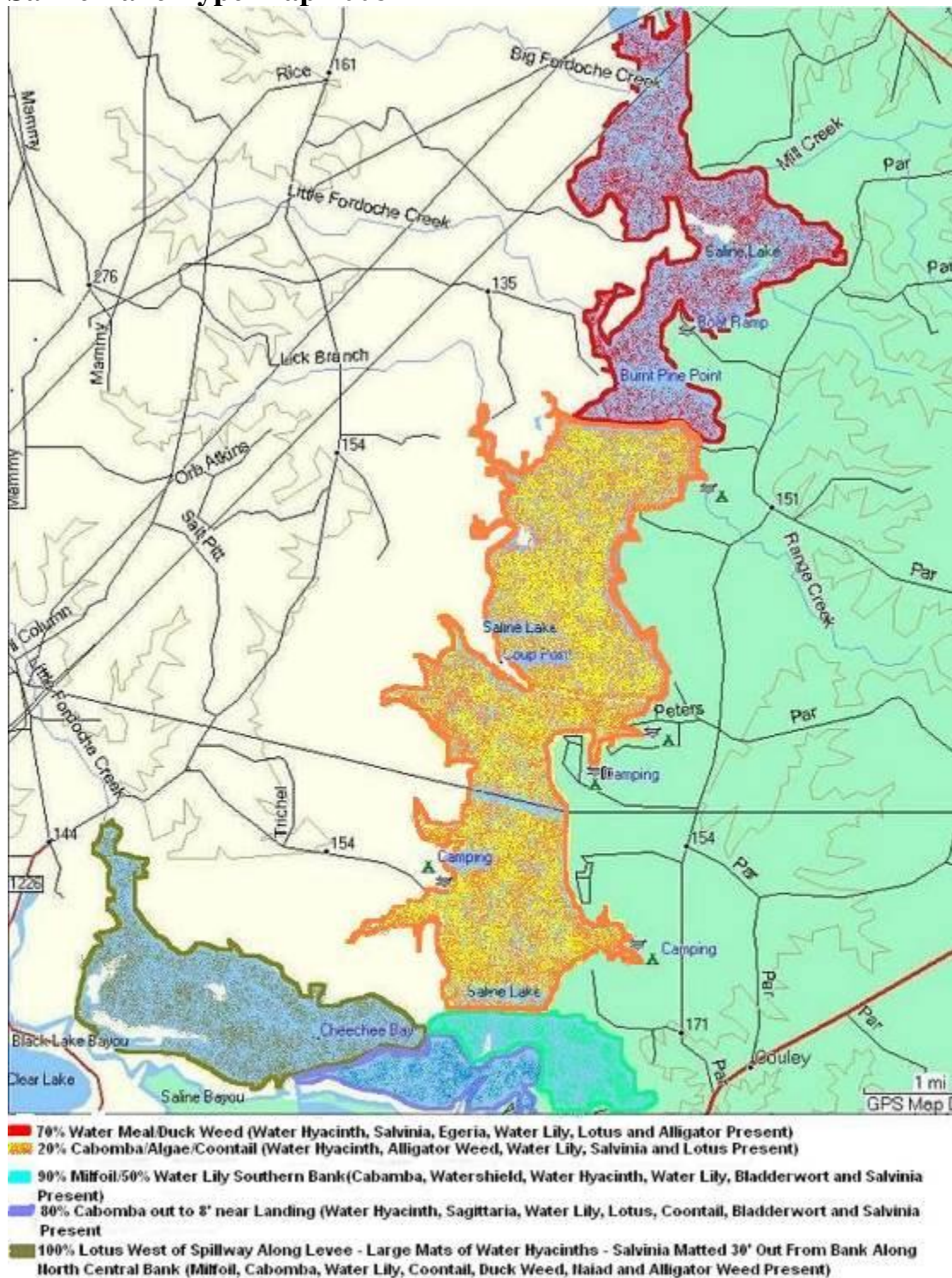
The lake was surveyed for the presence of aquatic vegetation on July 22nd and July 24th 2008. The bank (from Sandy Point south to Benjamin Point then east to the eastern bank then north through Mulligan Inn on to Stump's) averaged about 20% coverage of Cabomba, Algae and Coontail. Water Hyacinth, Alligator Weed and Fragrant Water Lily, Common Salvinia and American Lotus were also present but scattered.

The upper 1/3 of the lake had some areas with as much as 100% coverage of Water Meal and Duck Weed. Other areas had 60 - 80% Water Meal, Duck Weed and Cabomba coverage with some Water Hyacinth and Salvinia mixed in. Also present were Egeria, Fragrant Water Lily, American Lotus and Alligator Weed.

The area from Benjamin Point to 1st Oak Point has mainly Cabomba and Algae with Bladderwort, Water Meal, Salvinia, Naiad and Water Hyacinth also present. On to the east bank had about 90% Cabomba. American Lotus and Fragrant Water Lily were along the bank and Salvinia was matted in places. Also present was Naiad and Water Meal. Present around Collins and Ervin's Camp was Cabomba, Watershield, Water Hyacinth, Fragrant Water Lily, Bladderwort and Salvinia. The bank south of there had 90% coverage of Milfoil and 50% coverage of Fragrant Water Lily. Cabomba was also present. From Durham's on west to Shady Acres started at 80% Cabomba to 20% coverage. Also present was Bladderwort, Naiad, Fragrant Water Lily, Water Hyacinth (along the bank), Salvinia, American Lotus and Pickerel Weed. The channel just east of Cedar Bluff was solid American Lotus. Cedar Bluff and west had Fragrant Water Lily, Water Hyacinth, Watershield, Cabomba, Alligator Weed and Water Meal present. Milfoil was very heavy on the west side of the pocket. West through the Saline Bayou channel was Sagittaria, Cabomba and Fragrant Water Lily. Around the public ramp was about 80% coverage of Cabomba out to 8 foot depth. Also present was Water Hyacinth, American Lotus, Fragrant Water Lily, Coontail, Watershield, Bladderwort, Southern Naiad, Salvinia and Pond

Weed. Around 2nd Oak Point and west was Fragrant Water Lily, Cabomba, Water Meal, Bladderwort, Salvinia and Milfoil. West of spillway and along the levee was solid American Lotus. The entire Chee Chee Bay area had large mats of Water Hyacinth and in places was matted 30 to 100 feet along the bank. Salvinia was scattered but around 2nd Benjamin Point was matted 30 feet out from the bank. Also present was Milfoil, Cabomba, Fragrant Water Lily, Coontail, Duck Weed, Naiad and Alligator Weed.

Saline Lake Type Map 2008



Saline Lake, Natchitoches and Winn Parishes

Aquatic Vegetation Survey

April 18, 2012

Conducted by: Ricky Yeldell, Biologist Manager; Sean Kinney, Biologist Supervisor; Villis Dowden, Biologist III; Technicians – Jarrett Thaxton, Jason Corbitt and Wesley Maddox

The lake was surveyed to assess coverage of both submerged and aquatic vegetation. Three crews were deployed with each crew surveying one-third of the waterbody. Skies were clear to partly cloudy with light wind. The lake was above pool stage with water flowing over the spillway.

Giant salvinia (*Salvinia molesta*) was found across the entire waterbody with total coverage noted as 50% for this species. Isolated areas of open water were noted where giant salvinia had been blown away by wind. All areas with dense standing timber held solid coverage of giant salvinia.

Scattered pockets of American lotus (*Nelumbo lutea*), 200 total acres, Fragrant Water Lily (*Nymphaea odorata*), 225 total acres, Water hyacinth (*Eichhornia crassipes*), 150 total acres and Duckweed (*Lemna sp.*), 250 total acres were also noted.

The predominant submerged aquatic species was fanwort (*Cabomba caroliniana*). Bladderwort (*Utricularia sp.*) and Coontail (*Ceratophyllum demersum*) were found in lesser amounts along with fanwort. The submerged aquatic vegetation coverage found during the survey totaled 6,000 acres or approximately 75% of the lake bottom. Submerged aquatic vegetation was found in all but the deepest depths with those being the main channel of Saline Bayou.

Saline Lake Type Map 2012

